

AMENDMENTS TO THE CLAIMS

Please cancel claims 1-31.

Please add the following new claims:

32. (New) A method comprising:

if an amount of data located in a first memory buffer does not exceed a maximum transfer capacity of a system in which the data is to be transferred:

associating the data with a first transfer operation; and

if the amount of data associated with the first transfer operation has not reached the maximum transfer capacity, associating data located in one or more portions of one or more other memory buffers with the first transfer operation.

33. (New) The method of claim 32, additionally comprising transferring the data associated with the first transfer operation.

34. (New) The method of claim 33, additionally comprising associating a descriptor with the first transfer operation.

35. (New) The method of claim 32, additionally comprising associating data with one or more subsequent transfer operations.

36. (New) The method of claim 33, wherein the first and one or more subsequent transfer operations are performed in response to one or more

RDMA (Remote Direct Memory Access) requests.

37. (New) The method of claim 32, additionally comprising:

if the amount of data located in the first memory buffer exceeds the
maximum transfer capacity:

associating a portion of the data with the first transfer operation;
and

associating one or more subsequent portions of the data with one
or more subsequent transfer operations.

38. (New) The method of claim 33, additionally comprising:

associating a descriptor with the first transfer operation; and

transferring the data associated with the first transfer operation; and

39. (New) The method of claim 38, additionally comprising:

associating a descriptor with each of the one or more subsequent transfer
operations; and

transferring the data associated with the one or more subsequent transfer
operations.

40. (New) An apparatus comprising:

an RDMA (remote direct memory access) manager operable to service
one or more RDMA requests, and to:

determine if an amount of data located in a first memory buffer exceeds a maximum transfer capacity of a system in which the data is to be transferred, and:

if it is determined that the amount of data located in a first memory buffer does not exceed the maximum transfer capacity, then associate the data with a first transfer operation; and

if the amount of data associated with the first transfer operation has not reached the maximum transfer capacity, associate data located in one or more portions of one or more other memory buffers with the first transfer operation.

41. (New) The apparatus of claim 40, the RDMA manager additionally operable to transfer the data associated with the first transfer operation.

42. (New) The apparatus of claim 40, the RDMA manager additionally operable to associate data with one or more subsequent transfer operations.

43. (New) The apparatus of claim 40, the RDMA manager additionally operable to:

determine if the amount of data located in the first memory buffer exceeds the maximum transfer capacity, and:

if the amount of data located in the first memory buffer exceeds the maximum transfer capacity:

associate a portion of the data with the first transfer
operation; and

associate one or more subsequent portions of the data with
one or more subsequent transfer operations.

44. (New) A system comprising:

a host fabric adapter; and

an RDMA (remote direct memory access) manager included in a software
stack of the host fabric adapter, the RDMA manager operable to
service one or more RDMA requests, and to:

determine if an amount of data located in a first memory buffer
exceeds a maximum transfer capacity of a system in which
the data is to be transferred, and:

if it is determined that the amount of data located in the first
memory buffer does not exceed the maximum
transfer capacity, then associate the data with a first
transfer operation; and

if the amount of data associated with the first transfer
operation has not reached the maximum transfer
capacity, associate data located in one or more
portions of one or more other memory buffers of the
plurality of memory buffers with the first transfer

operation.

45. (New) The system of claim 44, the RDMA manager additionally operable to transfer the data associated with the first transfer operation.

46. (New) The system of claim 44, the RDMA manager additionally operable to associate data with one or more subsequent transfer operations.

47. (New) The system of claim 44, the RDMA manager additionally operable to:

determine if the amount of data located in the first memory buffer exceeds the maximum transfer capacity, and:

if the amount of data located in the first memory buffer exceeds the maximum transfer capacity:

associate a portion of the data with the first transfer operation; and

associate one or more subsequent portions of the data located with one or more subsequent transfer operations.

48. (New) An article comprising a machine-readable medium having machine-accessible instructions, the instructions when executed by a machine, result in the following:

if an amount of data located in a first memory buffer does not exceed a

maximum transfer capacity of a system in which the data is to be transferred:

associating the data with a first transfer operation; and

if the amount of data associated with the first transfer operation has not reached the maximum transfer capacity, associating data located in one or more portions of one or more other memory buffers with the first transfer operation.

49. (New) The article of claim 48, additionally comprising instructions that result in a machine transferring the data associated with the first transfer operation.
50. (New) The article of claim 49, additionally comprising instructions that result in a machine associating a descriptor with the first transfer operation.
51. (New) The article of claim 48, additionally comprising instructions that result in a machine associating data with one or more subsequent transfer operations.
52. (New) The article of claim 51, wherein the first and one or more subsequent transfer operations are performed in response to one or more RDMA (Remote Direct Memory Access) requests.
53. (New) The article of claim 48, additionally comprising instructions that result in a machine:

determining if the amount of data located in the first memory buffer exceeds the maximum transfer capacity, and:

if the amount of data located in the first memory buffer exceeds the maximum transfer capacity:

associating a portion of the data with the first transfer operation; and

associating one or more subsequent portions of data located in the first memory buffer with a corresponding number of one or more subsequent transfer operations.

54. (New) The article of claim 53, additionally comprising instructions that result in a machine:

associating a descriptor with the first transfer operation; and

transferring the data associated with the first transfer operation; and

55. (New) The article of claim 54, additionally comprising instructions that result in a machine:

associating a descriptor with each of the one or more subsequent transfer operations; and

transferring the data associated with the one or more subsequent transfer operations.